
aws
training and
certification

Thank you for joining!

AWS Certified Cloud Practitioner Week 2 Content Review

- This session will be recorded
- Please stay on mute
- Submit questions via chat function
- If you have other questions please contact helcreig@amazon.com

Partner Enablement Manager

aws training and certification

AWS Certified Cloud Practitioner

Week 2 Content Review

Aaron Trockman

Partner Enablement Manager

Amazon

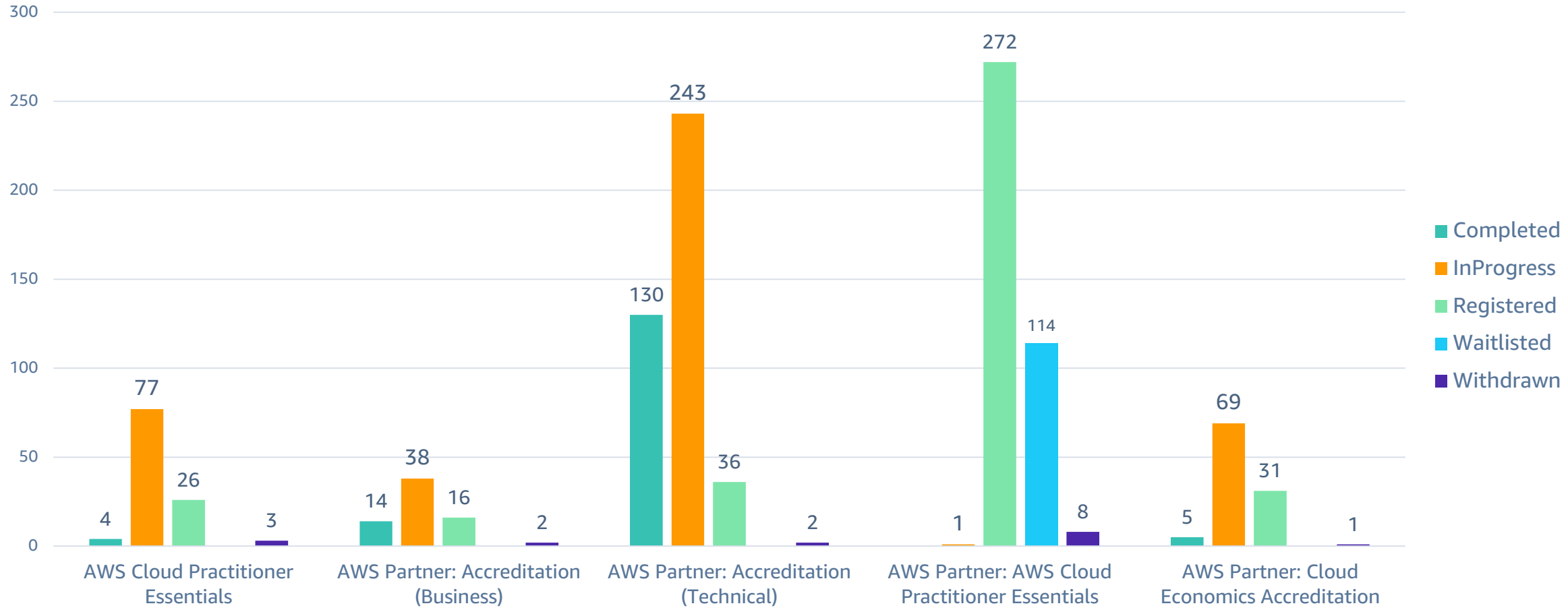
aws training and certification

Programmatic Updates

aws training and certification

By the Numbers

As of 7/1/22, 6pm IST



aws training and certification

About the Exam

aws training and certification

AWS Certified Cloud Practitioner

About the Exam

- 90 minutes
- 65 Questions
  - Scored 100 to 1000 (700+ pass)
- Multiple Response & Individual response questions
- In-Person & remote proctoring available

AWS Certified Cloud Practitioner

Key Exam Topics

% of Exam	Domain	Focus Areas
26%	Cloud Concepts	Value proposition of the cloud
25%	Security & Compliance	Shared responsibility model, core security services
33%	Technology	AWS global infrastructure, Core AWS services
16%	Billing & Pricing	Pricing/cost analysis tools, service pricing models, billing

AWS Certified Cloud Practitioner

Helpful Resources

Training

- AWS Partner Accreditation: Business
- AWS Partner Accreditation: Technical
- AWS Partner: Cloud Economics Accreditation
- AWS Partner: AWS Cloud Practitioner Essentials

White Papers

- Overview of Amazon Web Services
- AWS Well-Architected Framework
- How AWS Pricing Works: AWS Pricing Overview
- Management and Governance Lens
- AWS Global Infrastructure
- Compare AWS Support Plans
- AWS Acceptable Use Policy
- Shared Responsibility Model

Exam Preparation

- Quiz Show 1
- Quiz Show 2
- Quiz Show 3
- Quiz Show 4
- Sample Questions
- Schedule an Exam

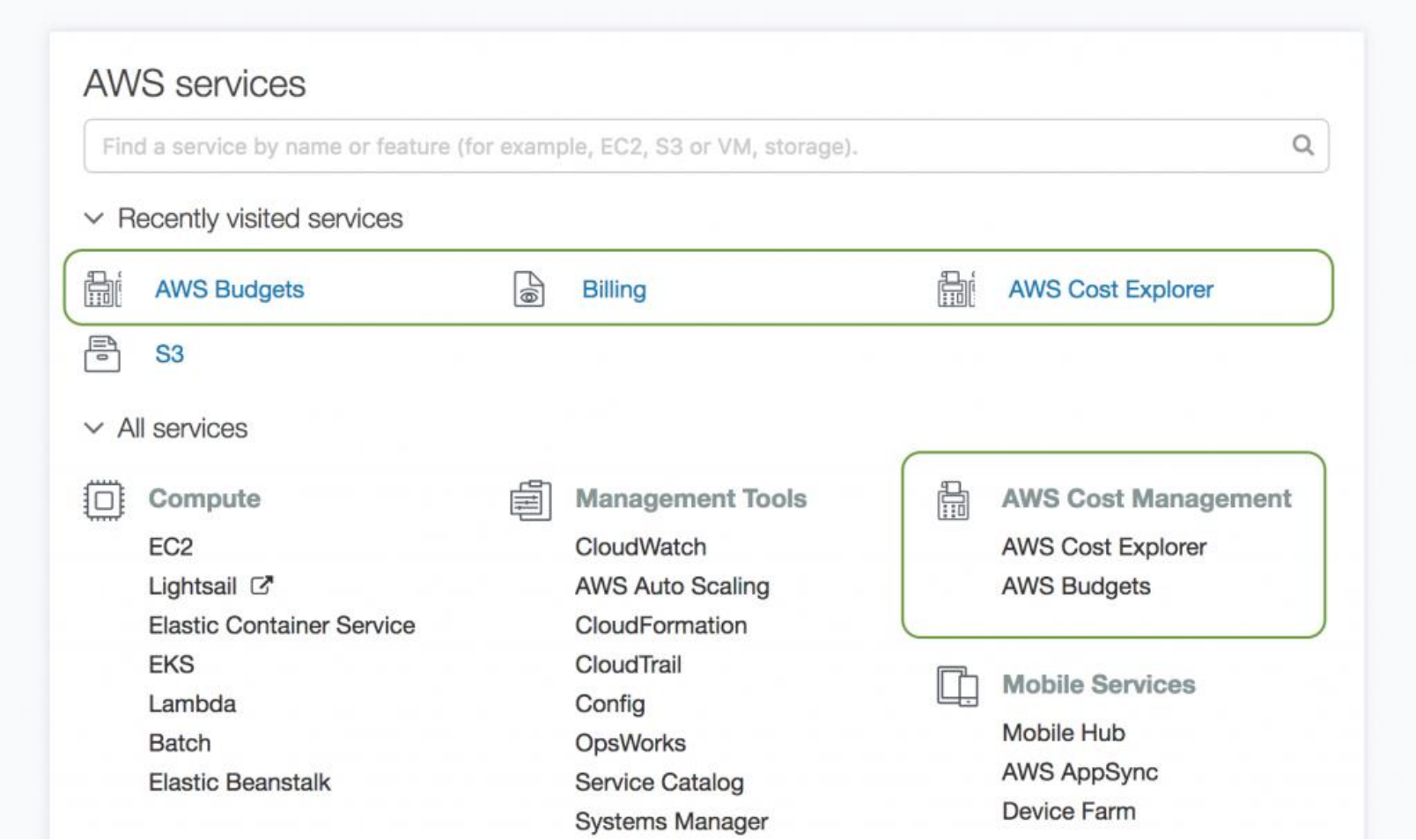
aws training and certification

Billing & Pricing Services on the Exam

aws training and certification

Available AWS Cost Management Services

Know and understand when to use each of the available AWS services



AWS Budgets

Set Custom Budgets and Receive Alerts

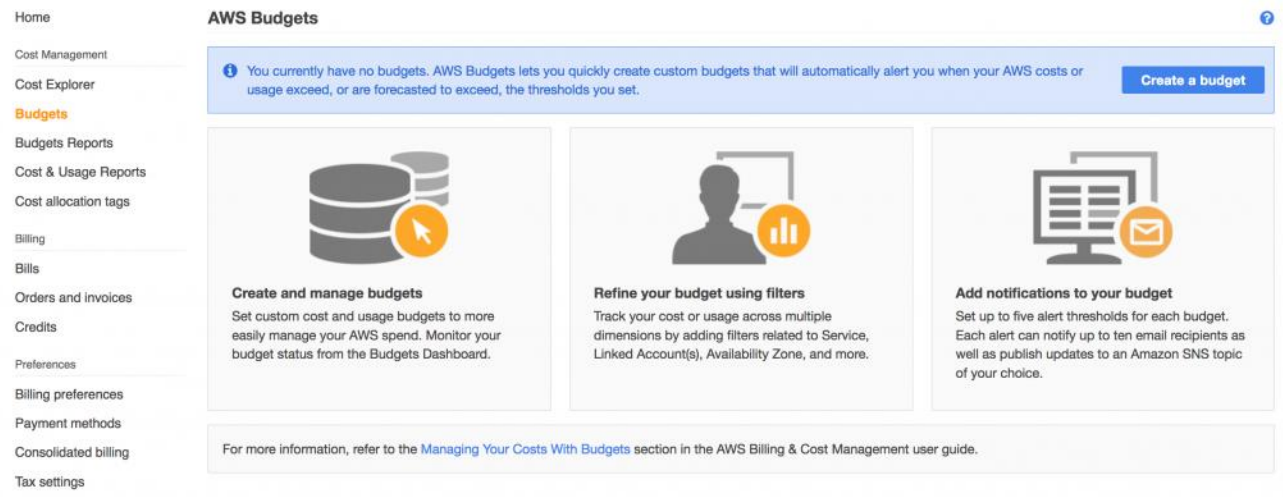
Set custom budgets to track your cost and usage from simple, monthly reminders to customized budgets by service.

Monitor

Monitor your AWS cost and usage, or RI and Savings Plans' coverage and utilization

Respond

Set up custom actions, such as Identity and Access Management (IAM) policies, Service Control Policies (SCPs), or target running instances (EC2 or RDS) that can be executed automatically when a budget target has been met or exceeded



aws training and certification

AWS Cost Explorer

Visualize and Explore Your AWS Costs and Usage

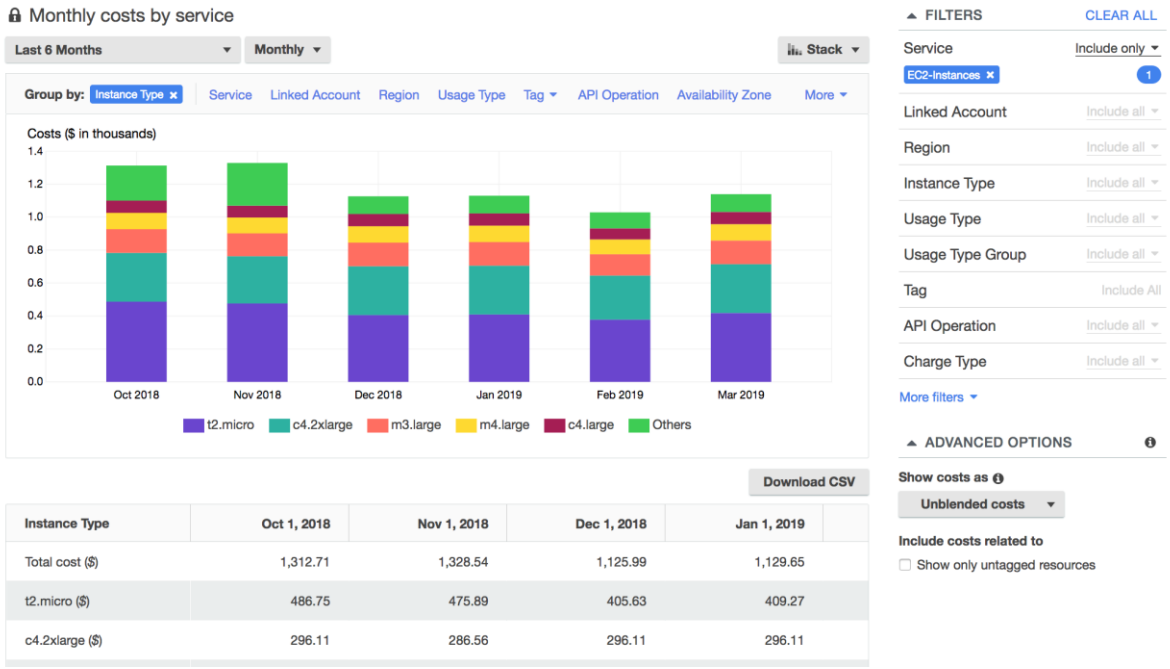
Visualize, understand, and manage your AWS costs and usage over time by creating custom reports

Visualize

A set of default reports are included to help you quickly gain insight into your cost drivers and usage trends

Forecast

Use forecasting to get a better idea of what your costs and usage may look like in the future based on historical usage patterns.



AWS Savings Plans (Cost Explorer Feature)

Flexible pricing model that can provide savings of up to 72% on AWS usage

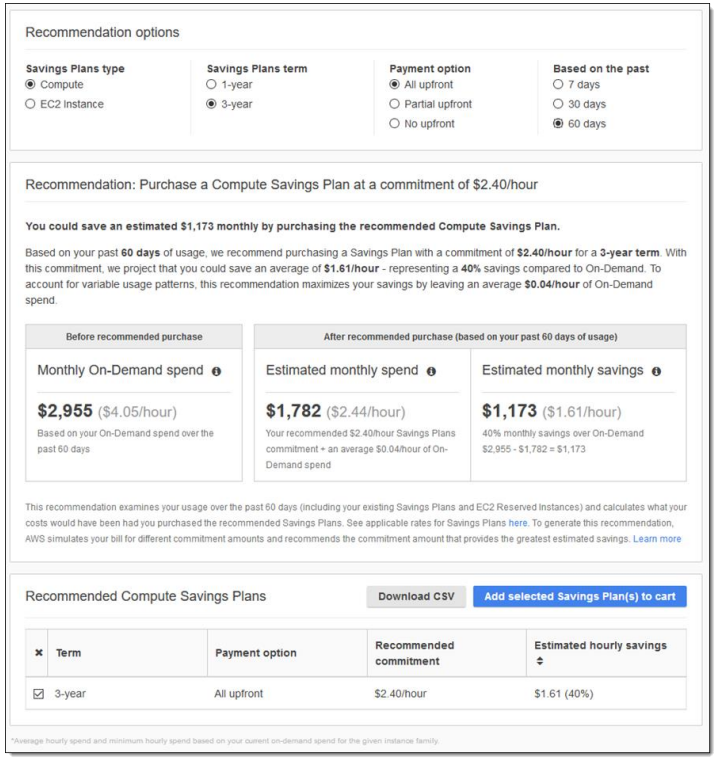
This model offers prices on Amazon EC2 instances usage, regardless of instance family, size, OS, tenancy or AWS Region, and also applies to AWS Fargate Usage. AWS Cost Explorer will help you choose a Savings Plan, and will guide you through the purchase process

Compute

These plans automatically apply to EC2 instance usage, AWS Fargate, and AWS Lambda service usage regardless of instance family, size, AZ, region, OS, or tenancy

EC2 & SageMaker

Provides the lowest prices, in exchange for commitment to usage of individual instance families in a selected region



aws training and certification

AWS Organizations

Central Governance and Management Across AWS Accounts

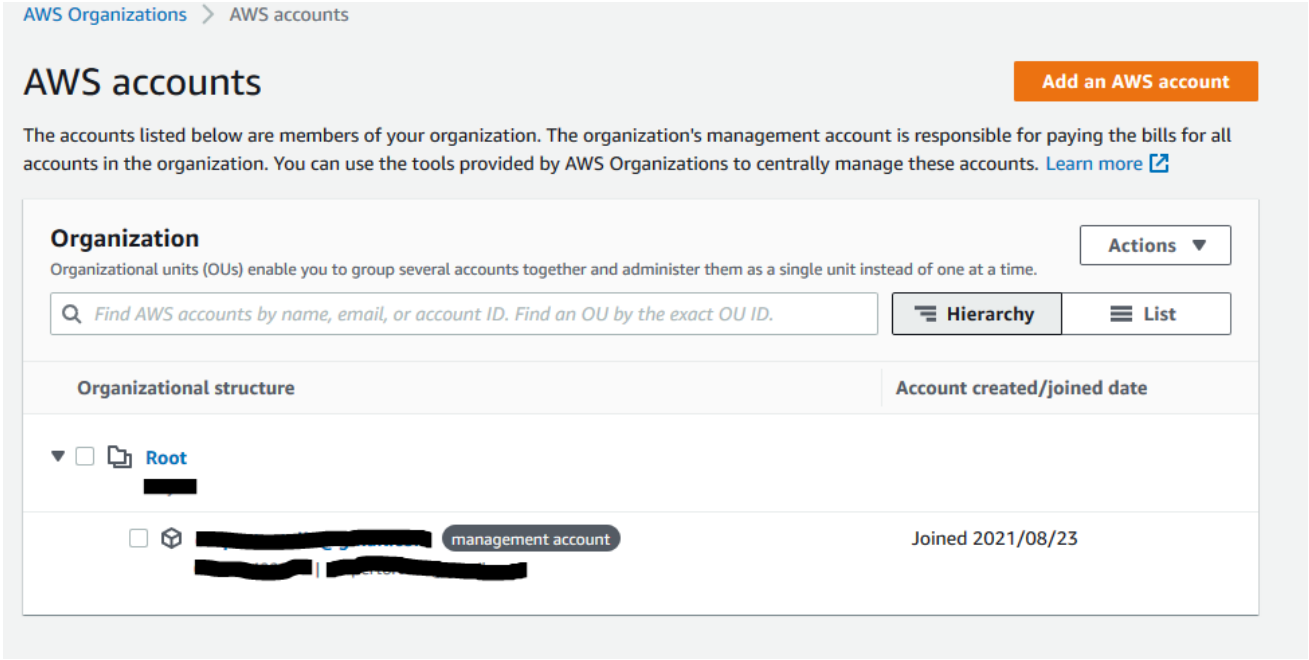
Programmatically create new AWS accounts and allocate resources, group accounts to organize your workflows, apply policies to accounts or groups for governance, and simplify billing by using a single payment method for all of your accounts

Automate

Automate the creation of new AWS accounts by adding them to user-defined groups in your organization for instant security policy application, touchless infrastructure deployments and auditing

Share

Share critical central resources across your accounts such as Active Directory



AWS Pricing Calculator (formerly TCO Calculator)

Configure a cost estimate that fits your unique business needs with AWS

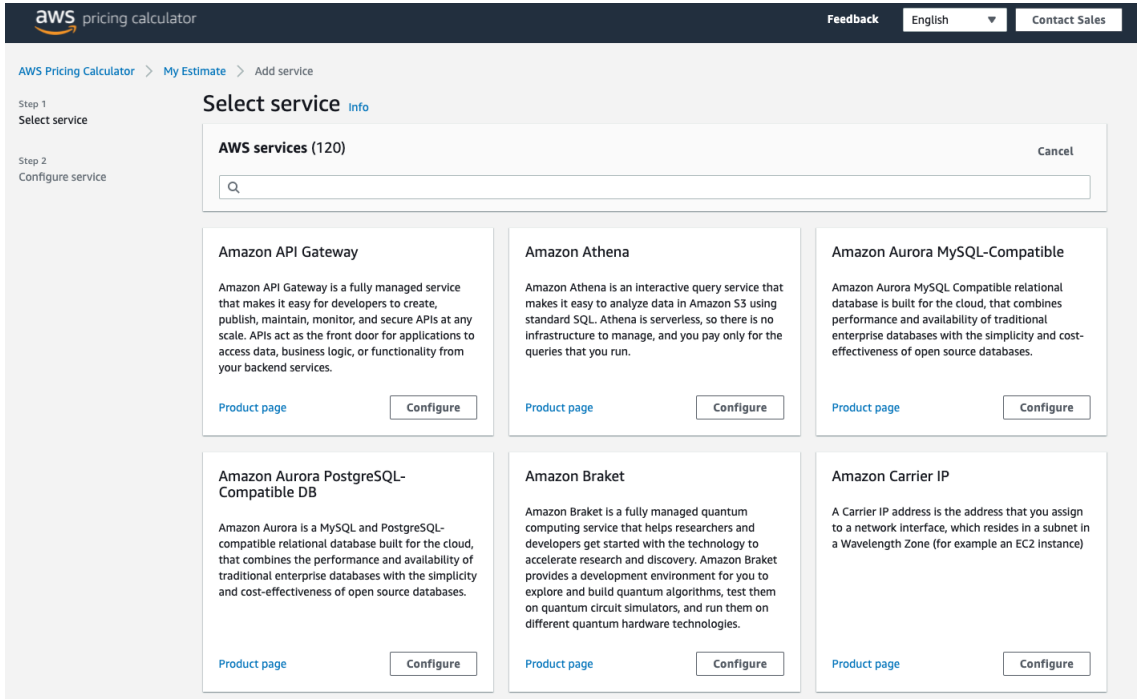
Explore AWS services and create an estimate for the cost of your use cases on AWS

Estimate

Estimate the cost to migrate your architecture setup to the cloud, or explore what an expansion of your business might look like

Right Size

Enter your minimum requirements to identify the most cost effective EC2 Instance for your use case.



aws training and certification

Cloud Financial Management

aws training and certification

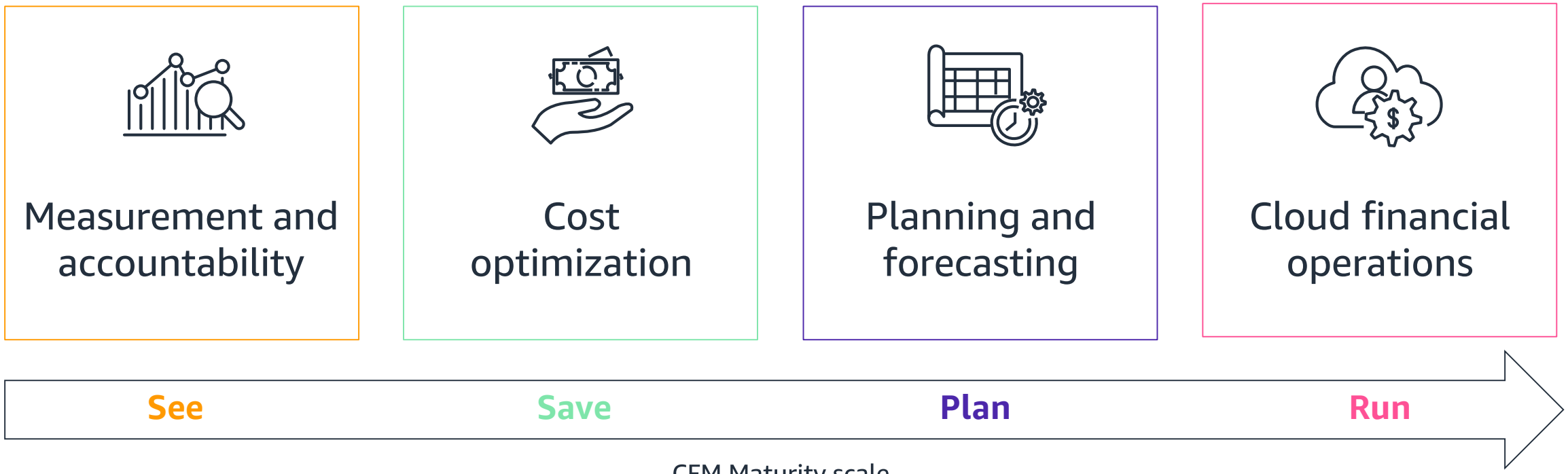
Deploy Globally with Customer Focused Services

Billing & Pricing Domain Focus Areas

- Compare and contrast the various pricing models for AWS
- Recognize the various account structures in relation to AWS billing and pricing
- Identify resources available for billing support
- Identify resources for technology support

Cloud Financial Management

Manage, optimize, and plan AWS cost and usage



Measurement and accountability

Capabilities that enable organizations to establish cost visibility, and accountability for spend

Activities	Outcomes
Implement an account structure and tagging dictionary	Cost and usage mapped to workloads and org structure
Establish reporting and monitoring for cost and usage	Decisions made with near real-time data and costs under budget
Allocate cloud costs	Cost-aware cloud consumption
Measure and circulate efficiency/value KPIs	Verifiable cloud investment decisions and outcomes

KAPLAN

By tagging all instances in AWS, we are now able to look at specific costs from the application layer down to every resource associated with an application. This has allowed us to surface the hidden costs for operating applications.

Chad Marino
Executive Director of Technology Services

Cost Optimization

Capabilities that enable organizations to pay only for the resources they need

Activities	Outcomes
Architect and design for value	Unnecessary spend avoided as early as possible
Identify and eliminate cloud waste	Wasteful spend repurposed for innovation and experimentation
Choose the best purchase option	Improved unit economics
Evolve with new cloud offerings	Cloud provider innovation leveraged to reduce costs

COMIC RELIEF

Our old platform was built and used for 6 years on “our night” of television, and never failed. Resilience and redundancy were areas which we really needed to focus on (as we moved to serverless). If the RDS failed then we had SQS, if SQS failed then we had S3 backups. Our (old platform) monthly hosting costs were over $83k, compared to under $6k (for serverless). In fact, the cost of our ”on the night” serverless platform was $92.

Caroline Rennie
Product Lead

Planning and Forecasting

Capabilities that enable customers to better understand future costs associated with current and new cloud workloads

Activities	Outcomes
Budget and forecast cloud costs dynamically	Increased forecast accuracy and business predictability
Estimate cloud workload costs	Faster cost-based decisions
Quantify cloud business value	Prioritized projects based on expected value creation
Integrate cloud with IT financial management planning	Consolidated planning across entire IT estate

By using AWS, Zynga could carefully plan, test, and develop proof of concepts without needing to commit to long-term fixed IT assets. This resulted in reduced costs and lower risk as it adapted to technology demands in real time, instead of relying on forecast models.

Cloud Financial Operations

Capabilities that enable customers to better understand future costs associated with current and new cloud workloads

Activities	Outcomes
Secure executive sponsorship for a CFM function	Programmatic approach to cost management
Align stakeholder understanding of cloud cost	Self-sustaining cost-aware culture
Implement cloud consumption guardrails	Business agility and cost governance
Evolve processes, automation and tools	Continuous cost efficiency at scale

ICONLOOP

ICONLOOP has established a Task Force Team for continuous cost management and began the cost optimization process by identifying and categorizing current resources based on tagging, user, and usage. For the classified resources, we were able to right-size our instances and reduce our EC2 spend by 5%, and apply AWS Reserved Instances for 36% additional overall cost reduction for steady-state workloads. This process has already allowed us to reduce AWS cost significantly and we keep monitoring our resources through a dashboard we built to achieve more savings.

Jinwoo Jeong
Infrastructure Team Leader

Putting it All Together

Measurement and accountability

Implement account and tagging strategy

Report and monitor cost and usage

Allocate costs

Measure efficiency/value KPIs

Cost optimization

Architect and design

Eliminate cloud waste

Choose the best purchase option

Evolve with new cloud offerings

Planning and forecasting

Dynamic budgeting and forecasting

Estimate workload costs

Quantify cloud business value

Integrate cloud with IT financial management

Cloud financial operations

Secure sponsorship for a CFM function

Align stakeholder understanding of cost

Implement cloud guardrails

Evolve process, automation, and tools

Thank you!

aws training and certification